

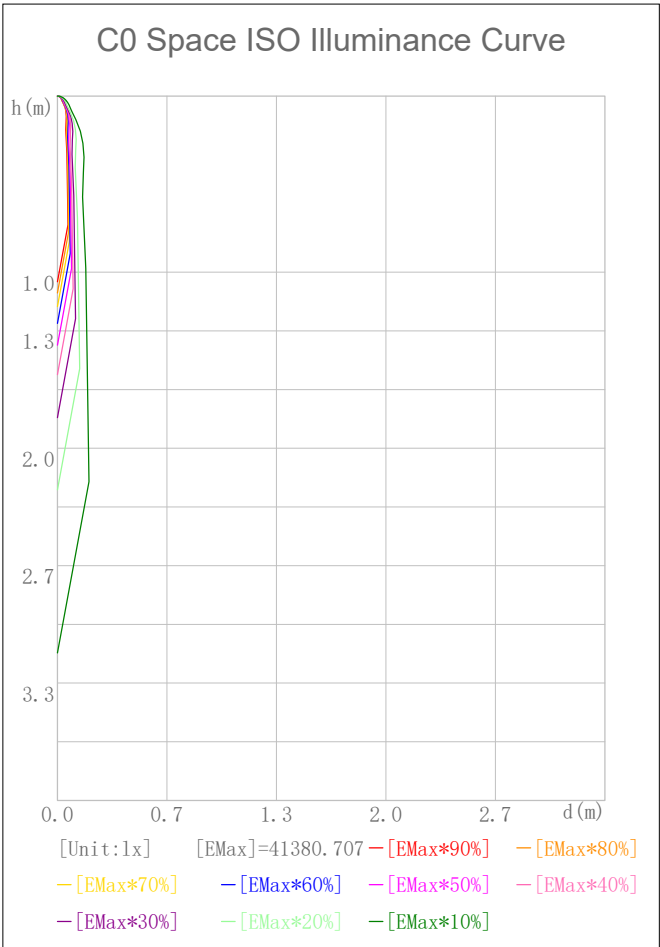
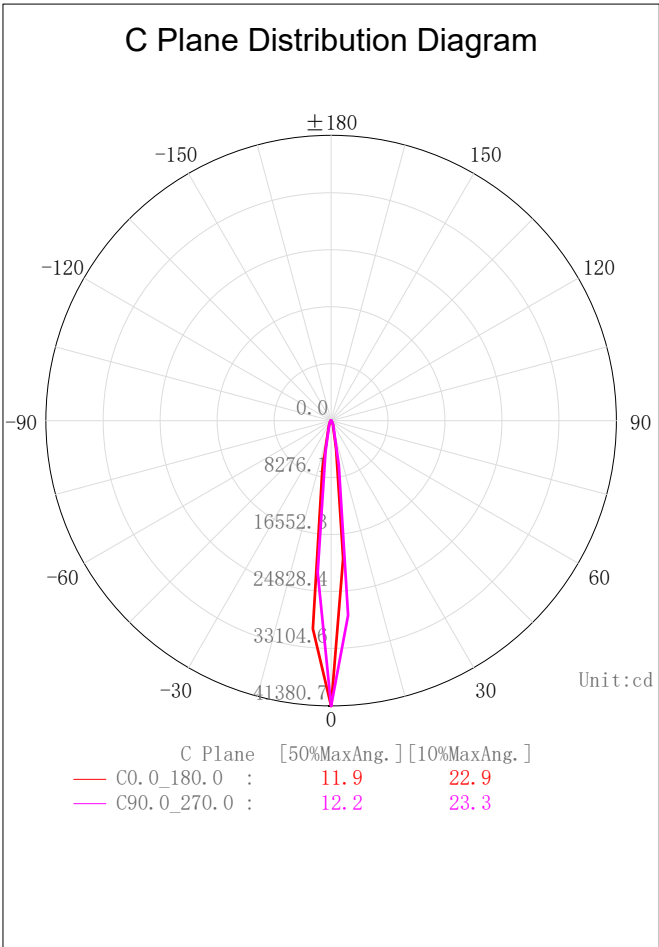
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/11
Manufacture: Shenzhen Norming Lighting	Shld.Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department	Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.110m*0.110m*0.000m	Lum. Area (m2): 0.012	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

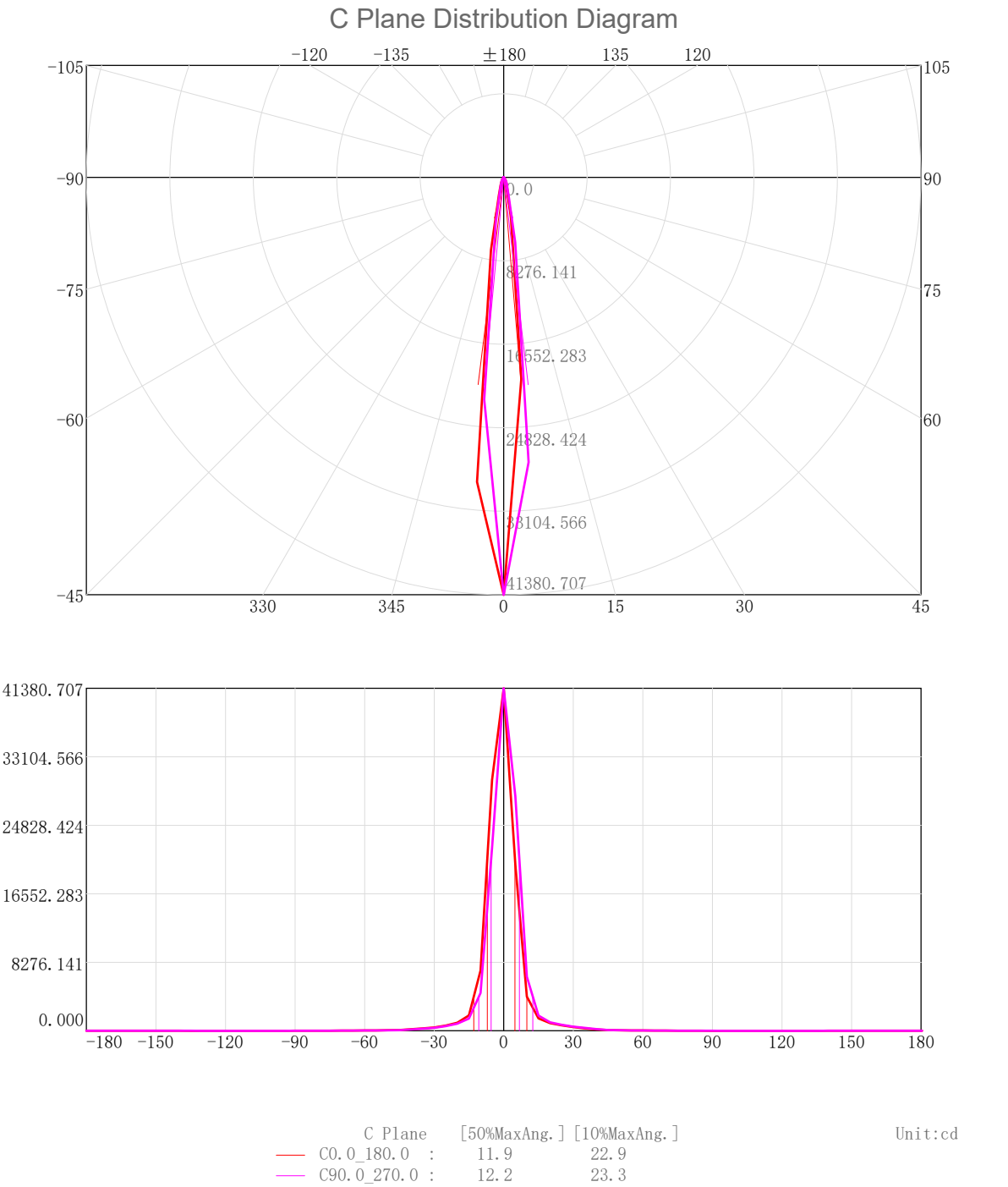
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3308.860	Luminary Flux(lm): 3308.861	Field Angle(10%Imax): 22.9(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3251.171lm 98.26%
Rated Voltage(V):	Luminary EER(lm/W): 98.537	Up Lumens&Percent: 57.690lm 1.74%
Tested Power(W): 33.580	Max. Candela(cd): 41380.707	S/MH: C0_a180=0.215 C90_270=0.211
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 239.6, 0.146, 0.960	Beam Angle(50%Imax): 11.9(°)	ErP Φ use(90°): 3224.033lm
Lamp Size (W*L*H): 0.110m*0.110m*0.000m	Left=-7.1°, Right=4.9°	IRF(%): 2778.379



2D Plane Light Intensity Distribution Curve

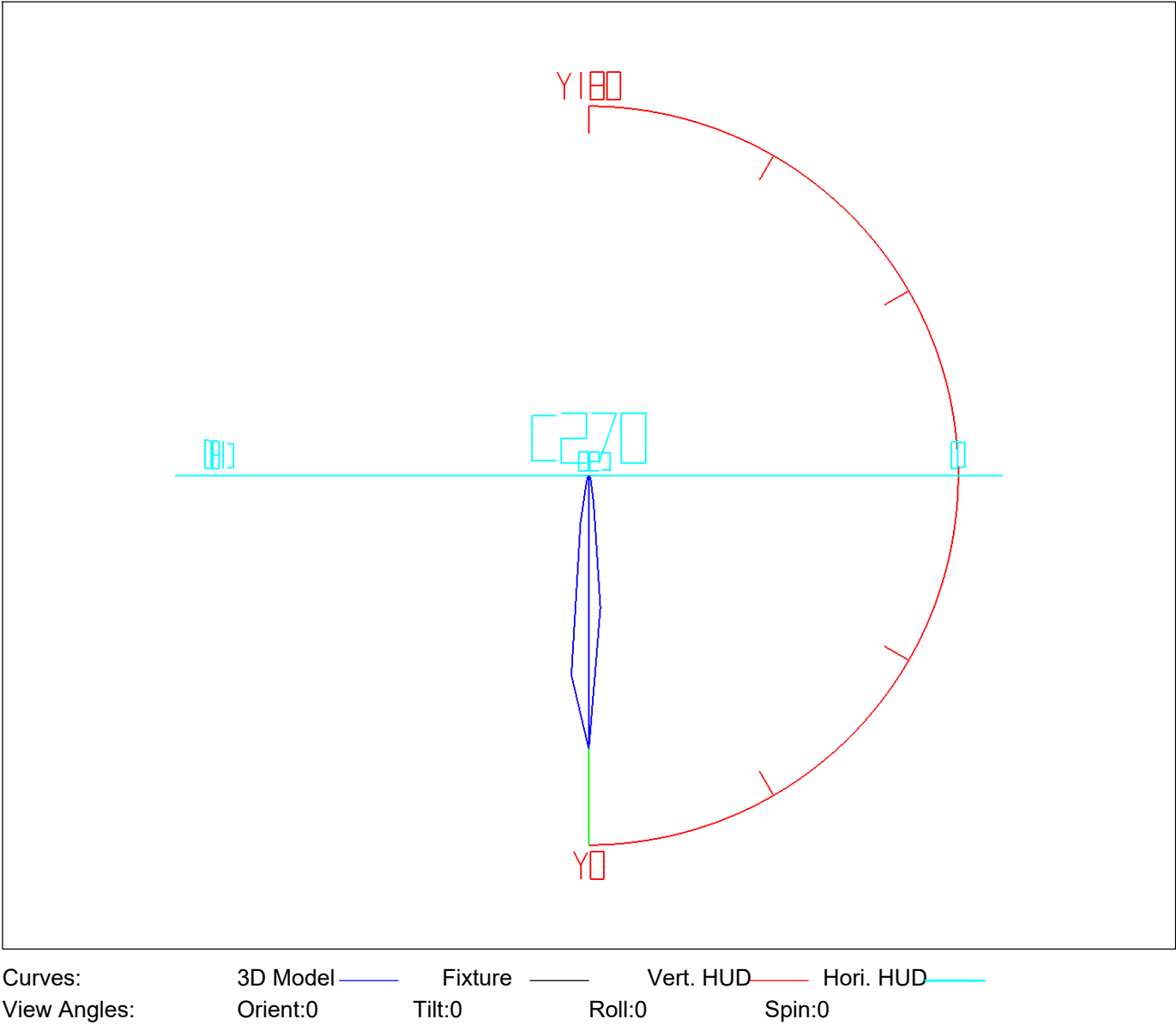
Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

3D Light Intensity Distribution Modal

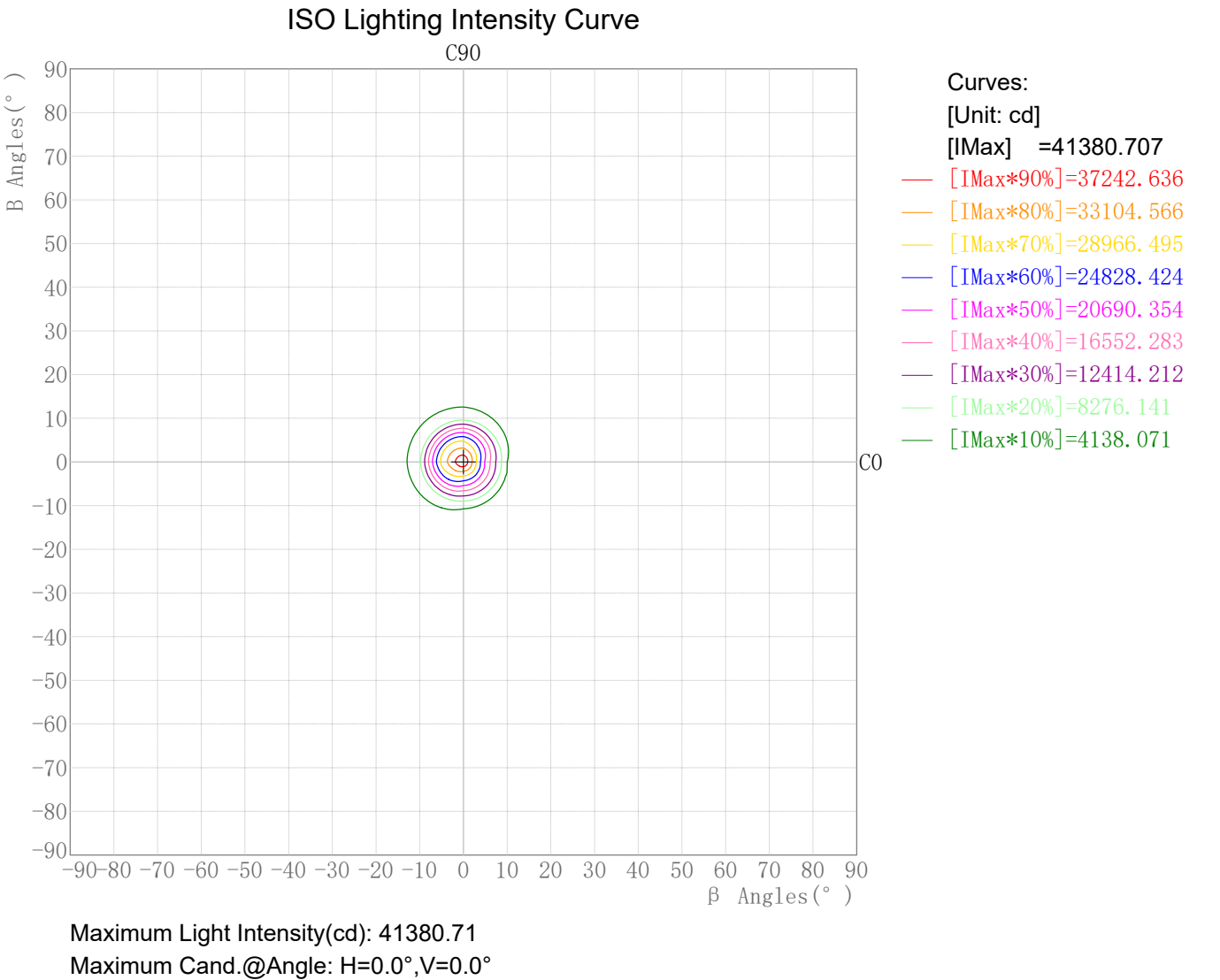


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	796.01	796.01	24.06	24.06
5.0-10.0	1103.51	1899.52	33.35	57.41
10.0-15.0	434.12	2333.63	13.12	70.53
15.0-20.0	216.58	2550.22	6.55	77.07
20.0-25.0	168.32	2718.53	5.09	82.16
25.0-30.0	138.05	2856.59	4.17	86.33
30.0-35.0	108.42	2965.01	3.28	89.61
35.0-40.0	80.44	3045.45	2.43	92.04
40.0-45.0	51.53	3096.98	1.56	93.60
45.0-50.0	33.30	3130.28	1.01	94.60
50.0-55.0	27.17	3157.46	0.82	95.42
55.0-60.0	22.89	3180.35	0.69	96.12
60.0-65.0	19.38	3199.73	0.59	96.70
65.0-70.0	15.84	3215.57	0.48	97.18
70.0-75.0	12.62	3228.18	0.38	97.56
75.0-80.0	9.85	3238.03	0.30	97.86
80.0-85.0	7.54	3245.57	0.23	98.09
85.0-90.0	5.60	3251.17	0.17	98.26
90.0-95.0	4.18	3255.36	0.13	98.38
95.0-100.0	3.34	3258.70	0.10	98.48
100.0-105.0	2.91	3261.61	0.09	98.57
105.0-110.0	2.76	3264.37	0.08	98.66
110.0-115.0	2.56	3266.93	0.08	98.73
115.0-120.0	2.36	3269.28	0.07	98.80
120.0-125.0	2.32	3271.60	0.07	98.87
125.0-130.0	2.44	3274.05	0.07	98.95
130.0-135.0	2.74	3276.79	0.08	99.03
135.0-140.0	3.49	3280.28	0.11	99.14
140.0-145.0	4.69	3284.97	0.14	99.28
145.0-150.0	5.49	3290.46	0.17	99.44
150.0-155.0	5.38	3295.84	0.16	99.61
155.0-160.0	4.63	3300.48	0.14	99.75
160.0-165.0	3.68	3304.16	0.11	99.86
165.0-170.0	2.69	3306.85	0.08	99.94
170.0-175.0	1.55	3308.40	0.05	99.99
175.0-180.0	0.46	3308.86	0.01	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

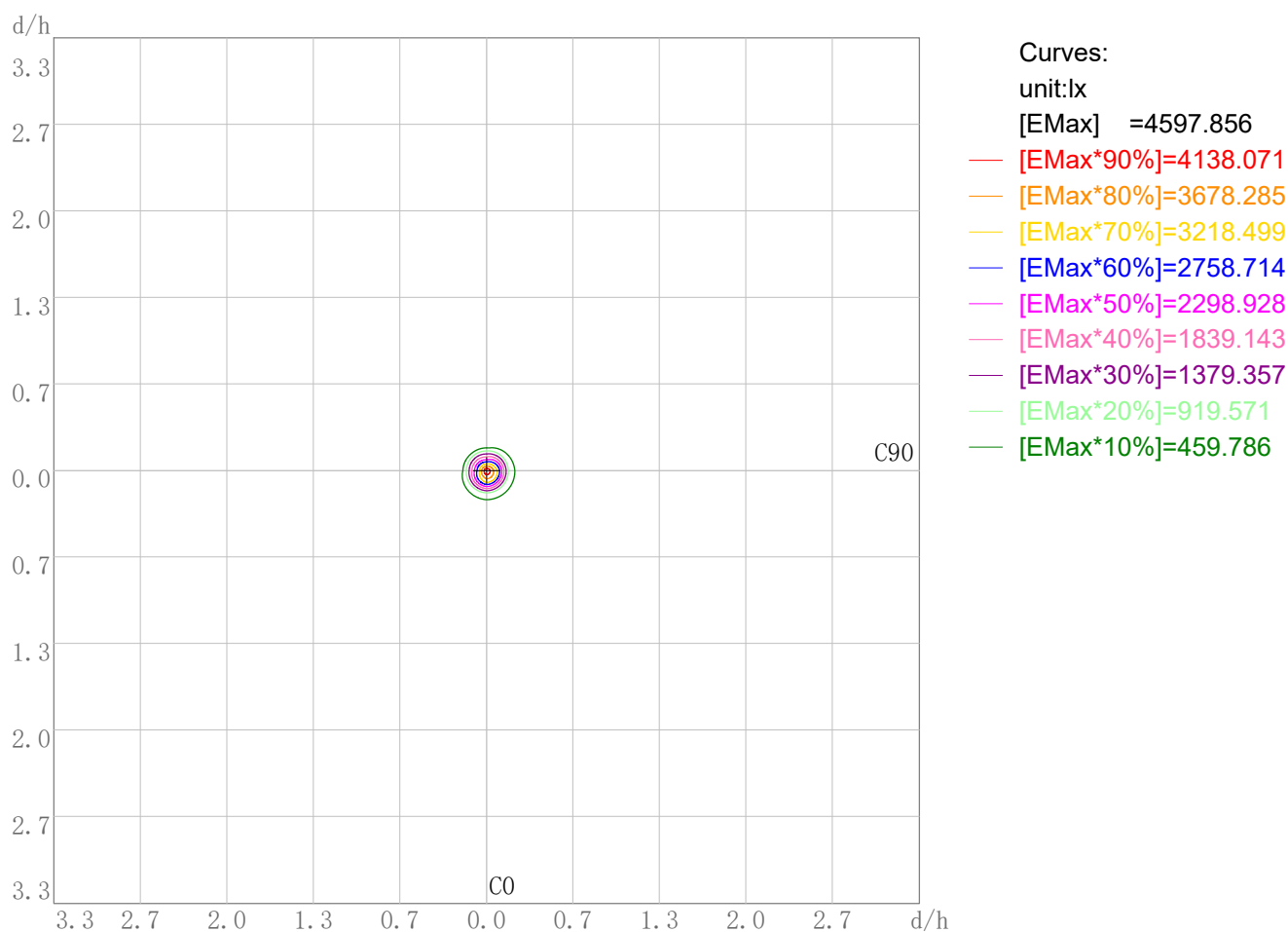


**Photometric Filename:DL51-35-XX-01 4000K RA90 15D 白色.IES**

## Plane ISO-Illuminance Diagram

Lum. Name: DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/11

### Plane ISO-Illuminance Curve

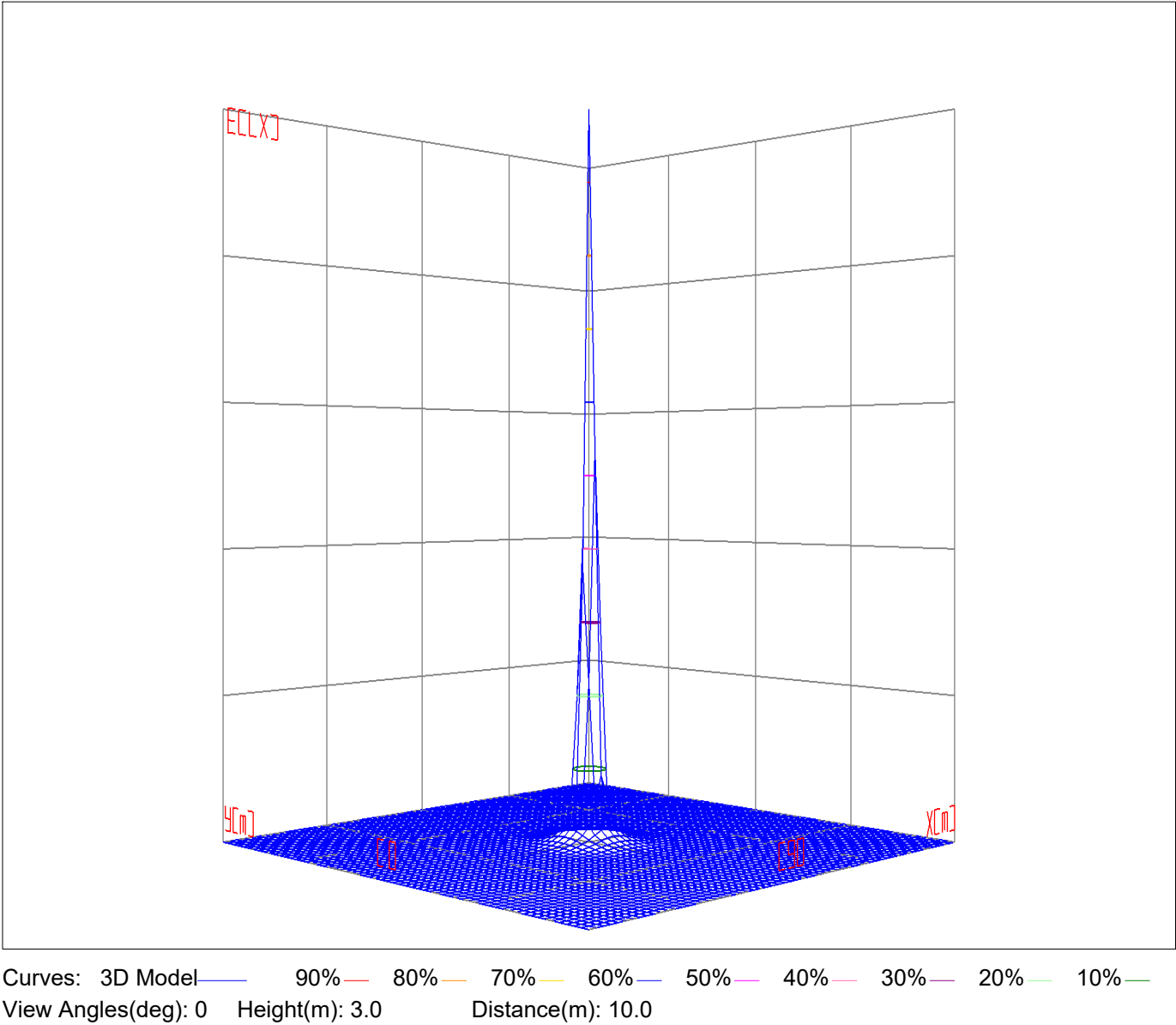


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 4597.86  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

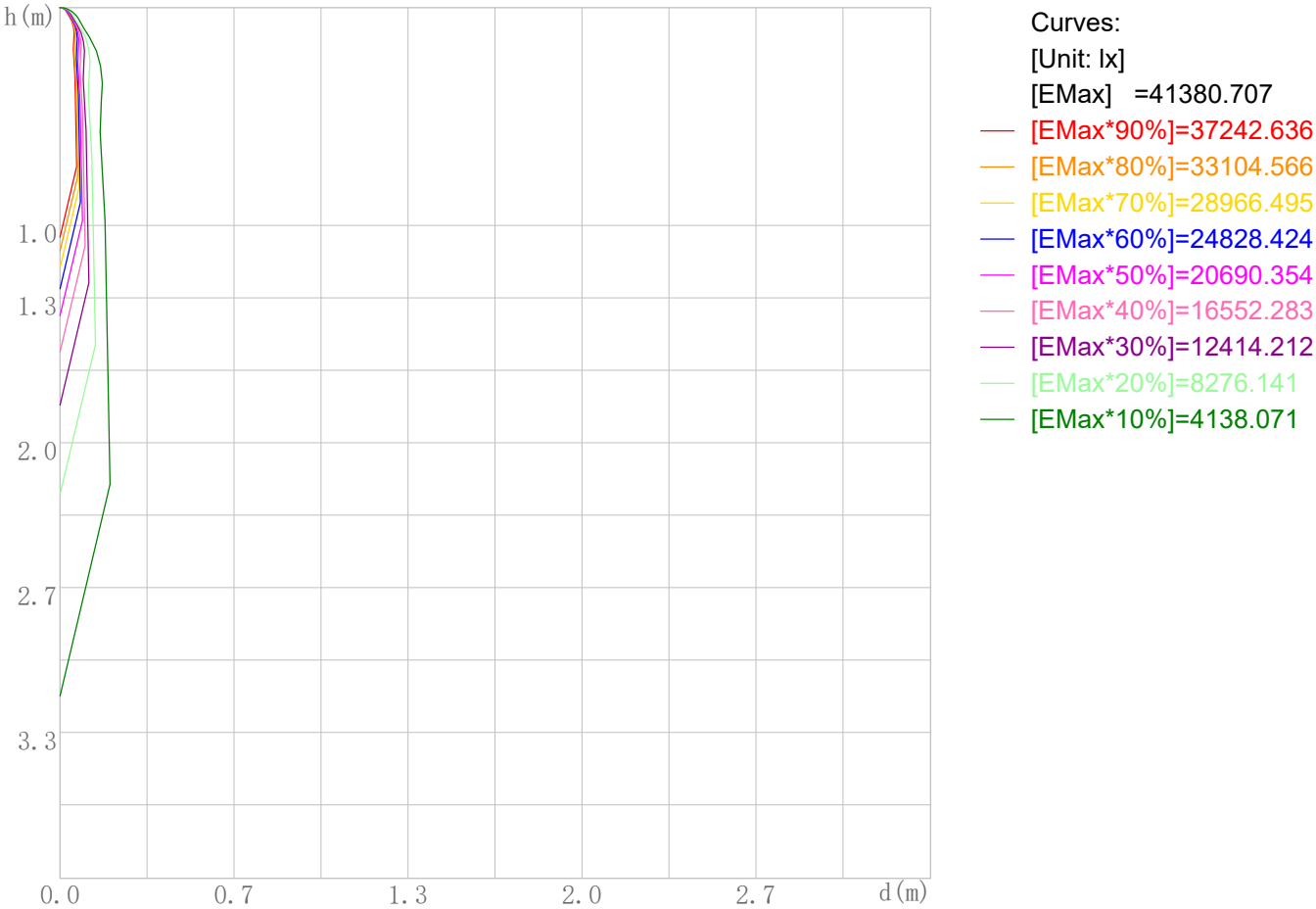
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

Space ISO Illuminance Curve

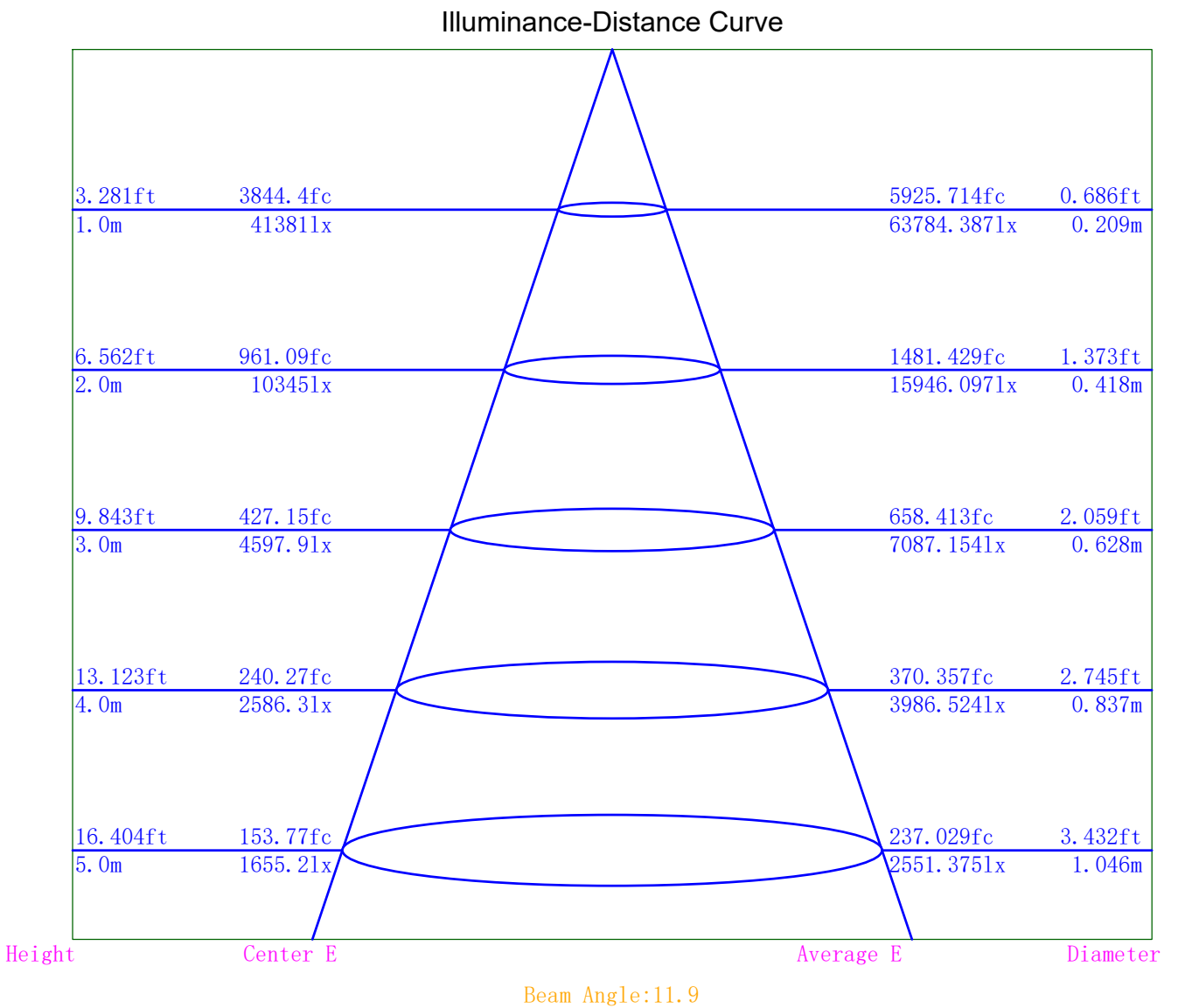


Space Plane Maximum Illuminance and @Angle:41380.71lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:41380.707cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11



Indoor Luminance Limiting Curves

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

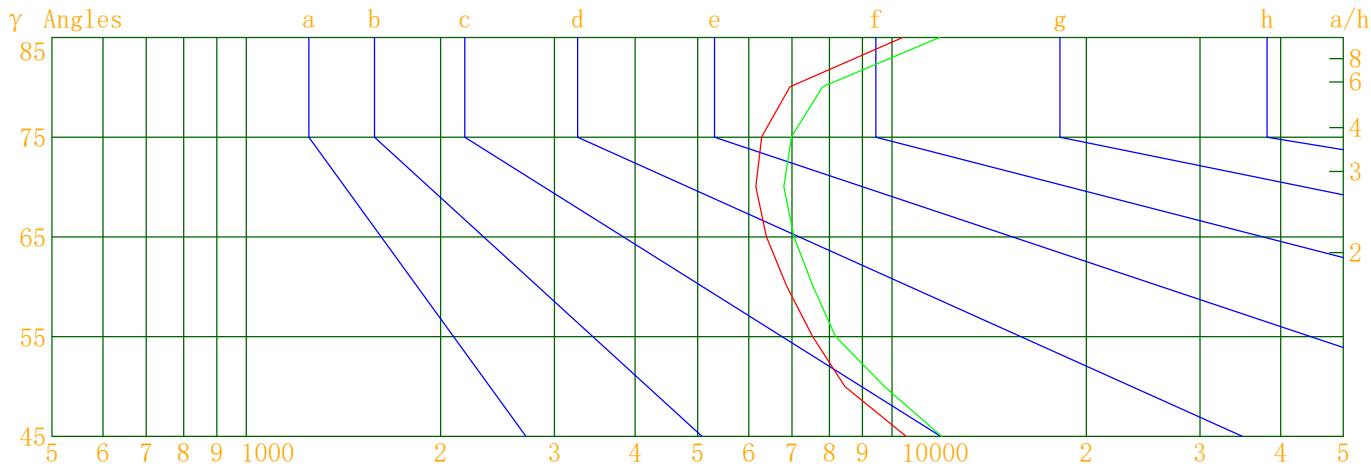
Glare Grade Table

GI	Quality	Using Illuminance							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama(deg)	45	50	55	60	65	70	75	80	85
C0	10515	8449	7536	6874	6389	6153	6284	6951	10384
C90	11935	9729	8176	7549	7047	6801	6988	7808	11841

Luminance Limiting Curve



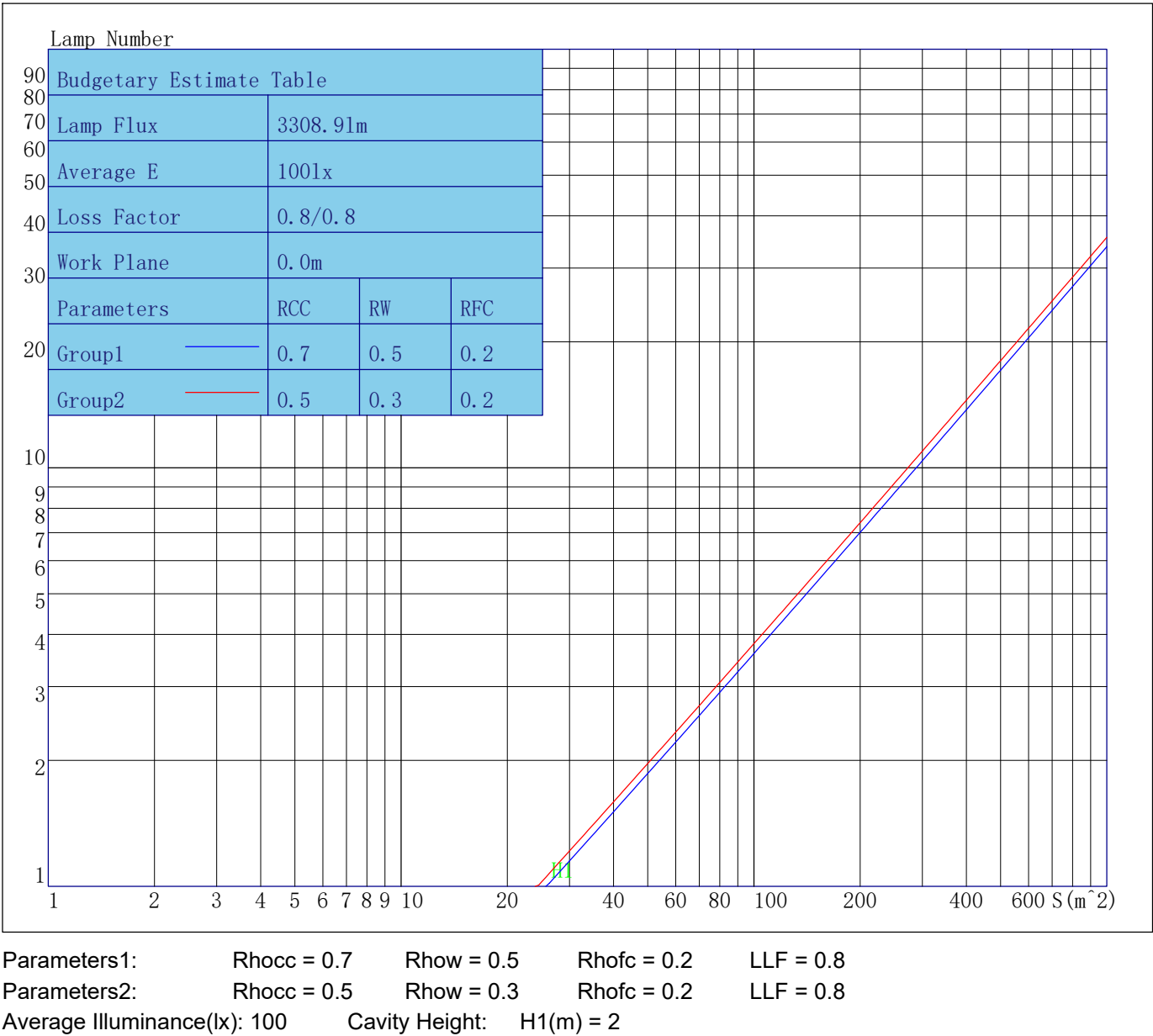
Luminous Size:Length(m)=0.110Width(m)=0.110Height(m)=0.000Area(m^2)=0.012100

Luminous Type:Without Luminous Side

Luminous Curves:C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	114	112	110	109	112	110	108	107	106	104	103	102	101	100	98	97	97	95
2	111	107	104	101	108	105	102	100	102	100	98	99	97	95	96	94	93	92
3	107	103	99	96	105	101	98	95	98	96	94	96	94	92	94	92	90	89
4	104	99	95	92	102	98	94	91	96	93	90	93	91	89	92	90	88	87
5	101	96	92	89	100	95	91	88	93	90	87	91	89	87	90	87	86	85
6	99	93	89	86	98	92	88	86	91	87	85	89	86	84	88	86	84	83
7	97	90	87	84	95	90	86	83	89	85	83	87	85	82	86	84	82	81
8	94	88	84	82	93	88	84	82	87	83	81	86	83	81	85	82	80	79
9	93	86	83	80	92	86	82	80	85	82	80	84	81	79	83	81	79	78
10	91	85	81	79	90	84	81	78	84	80	78	83	80	78	82	80	78	77

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 4000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H    Y=2H	13.9	14.8	14.3	15.1	15.5	14.7	15.5	15.1	15.9	16.2
	14.6	15.4	15.1	15.8	16.2	15.3	16.1	15.8	16.5	16.9
	15.1	15.7	15.5	16.1	16.6	15.7	16.4	16.2	16.8	17.3
	15.5	16.1	15.9	16.5	17.0	16.2	16.8	16.6	17.2	17.7
	15.7	16.3	16.2	16.7	17.2	16.4	17.0	16.9	17.4	17.9
	16.0	16.5	16.5	17.0	17.4	16.7	17.3	17.2	17.7	18.2
X=4H    Y=2H	14.1	14.8	14.6	15.2	15.7	14.8	15.5	15.2	15.9	16.3
	15.1	15.6	15.5	16.1	16.5	15.7	16.3	16.2	16.7	17.2
	15.6	16.1	16.1	16.6	17.1	16.3	16.8	16.8	17.2	17.7
	16.3	16.7	16.8	17.1	17.7	16.9	17.3	17.4	17.8	18.3
	16.6	16.9	17.1	17.4	18.0	17.2	17.6	17.7	18.1	18.6
	17.0	17.3	17.5	17.8	18.3	17.6	17.9	18.2	18.5	19.0
X=8H    Y=4H	15.8	16.2	16.4	16.7	17.2	16.4	16.8	17.0	17.3	17.8
	16.7	16.9	17.2	17.5	18.0	17.3	17.5	17.8	18.1	18.6
	17.1	17.4	17.7	17.9	18.5	17.7	18.0	18.3	18.5	19.1
	17.7	17.9	18.3	18.4	19.0	18.4	18.5	18.9	19.1	19.7
X=12H    Y=4H	15.9	16.2	16.4	16.7	17.2	16.5	16.8	17.0	17.3	17.8
	16.7	17.0	17.3	17.5	18.1	17.3	17.6	17.9	18.1	18.7
	17.3	17.5	17.9	18.0	18.6	17.9	18.1	18.5	18.6	19.3
Variations with the objerver position at spacings										
S=1.0H	0.2/-0.2					0.2/-0.2				
S=1.5H	0.4/-0.4					0.4/-0.4				
S=2.0H	0.5/-0.5					0.5/-0.5				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.6					2.6				

o the CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	41380.7	41380.7	41380.7	41380.7
γ 5.0	20063.0	28340.1	30300.5	22116.4
γ 10.0	4143.3	6546.1	7300.0	4580.0
γ 15.0	1506.0	1845.7	1856.9	1495.1
γ 20.0	935.9	1025.0	978.8	868.5
γ 25.0	669.1	728.7	642.9	570.5
γ 30.0	457.8	510.8	415.8	368.0
γ 35.0	298.1	353.0	286.7	255.1
γ 40.0	163.6	212.6	191.3	168.1
γ 45.0	90.0	102.1	98.4	87.1
γ 50.0	65.7	75.7	74.4	65.9
γ 55.0	52.3	56.7	56.0	53.2
γ 60.0	41.6	45.7	47.2	43.5
γ 65.0	32.7	36.0	37.5	34.7
γ 70.0	25.5	28.1	29.1	26.6
γ 75.0	19.7	21.9	22.1	20.2
γ 80.0	14.6	16.4	16.9	15.4
γ 85.0	11.0	12.5	12.6	11.6
γ 90.0	8.1	8.9	9.0	8.2
γ 95.0	7.1	7.5	6.4	5.9
γ 100.0	6.3	6.5	4.8	4.6
γ 105.0	5.9	6.0	4.7	4.7
γ 110.0	5.4	6.1	4.6	4.8
γ 115.0	4.6	5.4	4.6	4.9
γ 120.0	4.3	4.6	4.9	5.6
γ 125.0	4.5	4.5	5.8	6.0
γ 130.0	5.8	5.0	6.6	6.7
γ 135.0	7.6	6.4	7.6	8.5
γ 140.0	11.8	9.8	10.6	13.1
γ 145.0	17.1	15.7	15.9	18.6
γ 150.0	20.6	19.8	20.5	21.2
γ 155.0	22.2	21.5	22.3	22.0
γ 160.0	23.0	21.2	23.5	21.0
γ 165.0	23.2	21.6	23.4	21.7
γ 170.0	22.5	23.0	23.5	22.5
γ 175.0	19.2	21.4	20.8	20.2
γ 180.0	18.1	18.1	18.1	18.1